

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: November 18, 1996
Date Received: November 15, 1996
Project: Burning Table, PO #M55267
Date Samples Extracted: November 15, 1996
Date Extracts Analyzed: November 15, 1996

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR CHROMIUM, COPPER, NICKEL, ZINC
USING METHOD 6010**

Samples Processed Using Method 3005A
Results Reported as mg/L (ppm)

<u>Sample ID</u>	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M55267 A (West)	1.5	0.52	2.8	1.0
M55267 B (East)	18	14	21	0.36
Method Blank	<0.05	<0.05	<0.05	<0.05

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**QUALITY ASSURANCE RESULTS
 FOR TOTAL METALS BY
 INDUCTIVELY COUPLED PLASMA (ICP)
 (METHOD 6010)**

Laboratory Code: 73797 (Duplicate)

<u>Analyte:</u>	<u>Reporting Units</u>	<u>Sample Result</u>	<u>Duplicate Result</u>	<u>Relative Percent Difference</u>	<u>Acceptance Criteria</u>
Chromium	mg/L (ppm)	1.5	1.2	22h	0-20
Copper	mg/L (ppm)	0.52	0.51	2	0-20
Nickel	mg/L (ppm)	2.8	2.4	15	0-20
Zinc	mg/L (ppm)	1.0	1.0	0	0-20

Laboratory Code: 73937 (Matrix Spike)

<u>Analyte:</u>	<u>Reporting Units</u>	<u>Spike Level</u>	<u>Sample Result</u>	<u>% Recovery</u>		<u>Acceptance Criteria</u>	<u>Relative Percent Difference</u>
				<u>MS</u>	<u>MSD</u>		
Chromium	mg/L (ppm)	5	1.5	91	94	80-120	3
Copper	mg/L (ppm)	5	0.52	94	100	80-120	6
Nickel	mg/L (ppm)	10	2.8	92	97	80-120	5
Zinc	mg/L (ppm)	5	1.0	95	100	80-120	5

Laboratory Code: Spike Blank

<u>Analyte:</u>	<u>Reporting Units</u>	<u>Spike Level</u>	<u>% Recovery</u>		<u>Acceptance Criteria</u>	<u>Relative Percent Difference</u>
			<u>MS</u>	<u>MSD</u>		
Chromium	mg/L (ppm)	5	102	99	80-120	3
Copper	mg/L (ppm)	5	100	96	80-120	4
Nickel	mg/L (ppm)	10	103	100	80-120	3
Zinc	mg/L (ppm)	5	104	100	80-120	4

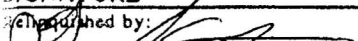
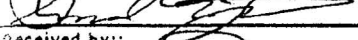
h - The process water sample contained a high level of suspended particulates. The variability can be attributed to this sample type.

KJ AI
11.15.94
9:03

9:03

Company Alaska Copper Works Contact GERALD Thompson
Address 628 HANFORD ST
City, State, Zip Seattle WA 98134
Phone # (206) 82-8379 Date 11-15-96

[illegible]

SIGNATURE	PRINT NAME	COMPANY	Date	Time
Relinquished by: 	Gerald Thompson	ACW	11/15/86	8:52am
Received by: 	Kurek	FBI	11/15/96	8:52AM
Relinquished by:				
Received by:				

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Beth M. Albertson, M.S.
Bradley T. Benson
Kelley D. Wilt

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044

November 18, 1996

**INVOICE # 96ACU1118-1
DUPLICATE COPY**

Accounts Payable
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

RE: Project Burning Table, PO #M55267: Results of testing requested by Gerry Thompson, Project Manager for material submitted on November 15, 1996.

2 water samples analyzed for
Chromium, Copper, Nickel, and Zinc
using Method 6010 @ \$65 per sample

\$ 130.00

Amount Due

\$ 130.00

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044

November 18, 1996

Gerry Thompson, Project Manager
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134


Dear Mr. Thompson:

Included are the results from the testing of material submitted on November 15, 1996 from your Burning Table, PO #M55267 project.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.


Kurt Johnson
Chemist

keh
Enclosures
ACU1118R.DOC

